

What is claimed is:

1. A method of transferring data in a device comprising a device body and a device accessory having a functionality, wherein the data comprises a sequence of data

5 segments, said method comprising the steps of:

conveying a ringing tone signal from the device body to the device accessory,
wherein the ringing tone signal comprises a sequence of frequencies indicative of the
sequence of data segments,

receiving the ringing tone signal by the device accessory,

10 retrieving the sequence of data segments from the received ringing tone signal
based on the sequence of frequencies in the received ringing tone signal, and
using the retrieved sequence of data segments for effecting the functionality.

2. The method of claim 1, further comprising the step of relating different
15 frequencies or frequency ranges to different data segments prior to the conveying step.

3. The method of claim 2, further comprising the step of arranging the related
frequencies according to the sequence of the data segments for providing at least one part
of the ringing tone, prior to the conveying step.

20 4. The method of claim 2, wherein each data segment comprises two or more bits to
form a bit pattern.

5. The method of claim 4, wherein at least one of the frequency ranges is related to a
25 repeating signal for indicating the repetition of a bit pattern.

6. The method of claim 1, wherein the functionality can be changed by a
programming data having a further sequence of data segments and the sequence of
frequencies is further indicative of the further sequence of data segments.

30 7. The method of claim 1, wherein the device accessory comprises a device cover.

8. A system for transferring data in a device having a device body and a device accessory, wherein the device body is capable of providing a ringing tone signal comprising a sequence of frequencies, and the device accessory has a functionality and an effecting mechanism to effect the functionality, and wherein the data comprises a sequence of data segments, the system comprising:

a first mechanism, disposed in the device accessory, for receiving the sequence of frequencies indicative of the sequence of data segments; and

a second mechanism, disposed in the device accessory, adapted to retrieve the sequence of data segments from the received sequence of frequencies in the ringing tone signal, for allowing the effecting mechanism to effect the functionality of the device accessory based on the retrieved sequence of data segments.

9. The system of claim 8, wherein the device is a mobile phone, the device body is a phone body and the device accessory comprises a phone cover.

10. The system of claim 8, wherein the functionality can be changed by a programming data having a further sequence of data segments and the sequence of frequencies is further indicative of the further sequence of data segments, and wherein the second mechanism is capable of retrieving the further sequence of data segments from the sequence of frequencies for allowing the effecting mechanism to change the functionality based on the programming data.

11. A mobile terminal having a phone body and a phone accessory, wherein the phone body is capable of receiving an external signal from an external device, and providing a ringing tone signal having a sequence of frequencies in response to the external signal, and wherein the phone accessory has a functionality, which can be effected by a data having a sequence of data segments provided by the phone body, the mobile terminal comprises:

a first device, disposed in the phone body, for conveying the ringing tone signal to the phone accessory, wherein the sequence of frequencies indicative of the sequence of data segments; and

5 a second device, disposed in the phone accessory, for receiving the ringing tone and retrieving the data sequence from the received ringing tone based on the sequence of frequencies in the received ringing tone so as to allow the phone accessory to effect the functionality based on the retrieved data segments.

10 12. The mobile terminal of claim 11, wherein the external signal is a call signal.

13. The mobile terminal of claim 11, wherein the functionality of the phone accessory can be changed by a programming data having a further sequence of data segments and the sequence of frequencies is further indicative of the further sequence of data segments.

15 14. The mobile terminal of claim 13, wherein the external signal is a short messaging service signal.

15. The mobile terminal of claim 13, wherein the external signal is a multimedia messaging service signal.

20 16. The mobile terminal of claim 11, wherein the phone accessory comprises a phone cover having the functionality.